Panasonic

Digital Cordless Answering System

Operating Instructions

Model No. KX-TCD420NZ

Preparation

Cordless Telephone

Answering System

Useful Information

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Caller ID Compatible

PLEASE READ BEFORE USE AND SAVE.

Charge the battery for about 7 hours before initial use.

Before Initial Use

Thank you for purchasing your new Panasonic digital cordless telephone.

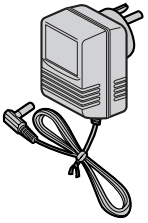
Dear purchaser,
You have acquired a KX-TCD420NZ, which is a product made in regard with the Digital Enhanced Cordless Telecommunications (DECT). DECT technology is characterized by high-security protection against interceptions as well as high-quality digital transmission. This telephone was designed for a wide range of applications. For example, this telephone can be used within a network of base units and handsets, constituting a telephone system which:

- operates up to 6 handsets at one base unit.
- allows an intercom between 2 handsets.
- allows the operation of a handset at up to 4 base units, expanding the communication radio area.

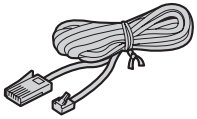
Caller ID Service, where available, is a telephone company service. After subscribing to Caller ID, this phone will display the caller's phone number.

Accessories (included)

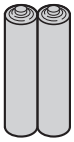
☐ AC Adaptor PQLV19AL



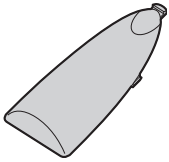
☐ Telephone Line Cord



☐ Rechargeable Batteries (AAA size) HHR-4EPT/BA2 (HHR-4EPT)



☐ Battery Cover



Additional accessories are available for purchase. Contact your Panasonic Service Centre for further details.

General Warning:
The grant of a Telepermit for any item of terminal equipment indicates only that Telecom has accepted that the item complies with minimum conditions for connection to its network. It indicates no endorsement of the product by Telecom, nor does it provide any sort of warranty. Above all, it provides no assurance that any item will work correctly in all respects with another item of Telepermitted equipment of a different make or model, nor does it imply that any product is compatible with all of Telecom's network services.

Only use the power supply included with the product.
Do not connect the AC Adaptor to any AC outlet other than the standard AC230 V.
The apparatus is approved for use with PQLV19AL power supply.
This apparatus is unable to make emergency telephone calls under the following conditions:

- The portable handset batteries need recharging, or have failed.
- During a mains power failure.
- When the Key Lock is set to ON.
- When the unit is in Direct Call mode.

Do not open the base unit or handset (other than to change the batteries).
This apparatus should not be used near emergency/intensive care medical equipment and should not be used by people with pacemakers.
Care should be taken that objects do not fall onto, and liquids are not spilled into the unit. Do not subject this unit to excessive smoke, dust, mechanical vibration or shock.

Environment

Do not use this unit near water.
This unit should be kept away from heat sources such as radiators, cookers, etc. It should also not be placed in rooms where the temperature is less than 5 °C or greater than 40 °C.
The AC Adaptor is used as the main disconnect device, ensure that the AC outlet is located/installed near the unit and is accessible.

WARNING:
TO PREVENT THE RISK OF ELECTRICAL SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY OTHER TYPE OF MOISTURE.

Battery Caution

Use only specified batteries.
Only use rechargeable batteries.
Do not mix old and new batteries.
Do not dispose of batteries in a fire, they may explode.
Check local waste management codes for special disposal instructions.
Do not open or mutilate the batteries.
Released electrolyte is corrosive and may cause burns or injury to the eyes or skin.
The electrolyte may be toxic if swallowed.
Exercise care in handling the batteries in order not to short the batteries with conductive materials such as rings, bracelets and keys.
The batteries and/or conductor may overheat and cause burns.
Charge the batteries provided in accordance with the information given in this operating guide.

Location

- For maximum distance noise-free operation, place your base unit:
  - Away from electrical appliances such as TV, radio, personal computer or another phone.
  - In a convenient high and central location.

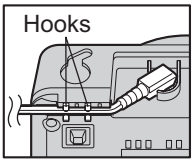
Safety Caution

The ringer tone is reproduced through the earpiece. To avoid damage to hearing, first answer the call, then hold the phone to the ear.

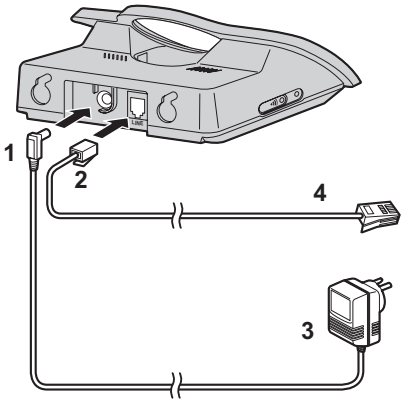
Setting up

Connection

Plug in the AC adaptor and the telephone line cord in order **1**, **2**, **3**, **4**.



Fasten the AC adaptor cord to prevent it from being disconnected.



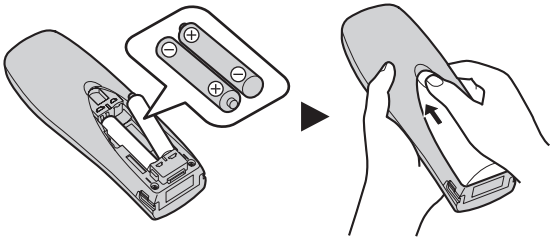
The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)

- Never install telephone wiring during a lightning storm.

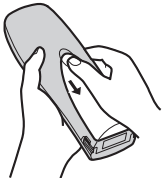
Battery Installation

Please ensure the batteries are inserted as shown. ⊖ part should be inserted first. Close the cover as indicated by the arrow.

- When you replace the batteries, ⊕ part should be removed first.

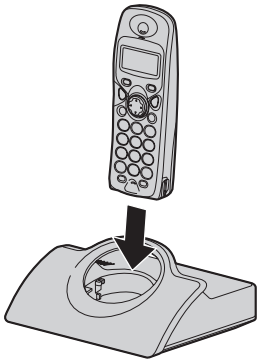


To replace the battery:
Press the notch on the cover firmly and slide it as indicated by the arrow. Replace 2 batteries and close the cover then charge the handset for about 7 hours.

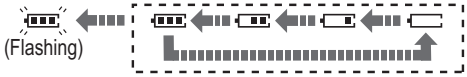


Battery Charge

At the time of shipment, the batteries are not charged. To charge, place the handset on the base unit. **Please charge the batteries for about 7 hours before initial use.** During charging, the battery icon is as shown below.



Fully charged **During charging**



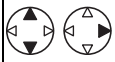
Display icon	Battery strength
	High
	Medium
	Low
	Needs to be charged

The handset, when off, will be turned on automatically when it is placed on the base unit.
In normal use, the handset and the base unit should be powered on at all times.

Battery Life

Battery life is dependent on use and conditions but in general when using fully charged Ni-MH batteries (700 mAh):
Talk time: 10hrs approx.
Standby time: 120hrs approx.
When using Ni-Cd batteries (250 mAh):
Talk time: 4hrs approx.
Standby time: 40hrs approx.
(Times indicated are for peak performance.)
The batteries reach peak performance after several full charge/discharge cycles.
The batteries cannot be overcharged unless they are repeatedly removed and replaced.
If battery life is shortened then please check that battery and charge terminals are clean.
For maximum battery life, it is recommended that the handset not be recharged until battery icon flashes .

Symbols Used in This Operating Instructions

Symbol	Meaning
	To search the desired item, press **UP** or **DOWN**.
	To select the desired item, press **RIGHT**.
	To search and then to select the desired item, press **UP** or **DOWN** then **RIGHT**.
	To move the cursor to the right or to the left, press **RIGHT** or **LEFT**.
➧	To go to the next step.
" "	The words in " " indicate the words in display.

Replacing the Batteries

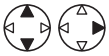
If the icon flashes after a few telephone calls even when the handset batteries have been fully charged, 2 batteries must be replaced.

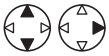
Charge new batteries for approximately 7 hours before initial use.
(The telephone line cord must not be connected to the telephone socket at this time.)

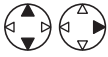
When replacing the batteries, ensure that the correct battery type is selected.

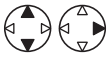
Selecting the Battery Type

1
Press **MENU**.

2 
Search/Select "SETTING HS".

3 
Search/Select "OTHER OPT".

4 
Search/Select "BATTERY TYPE".

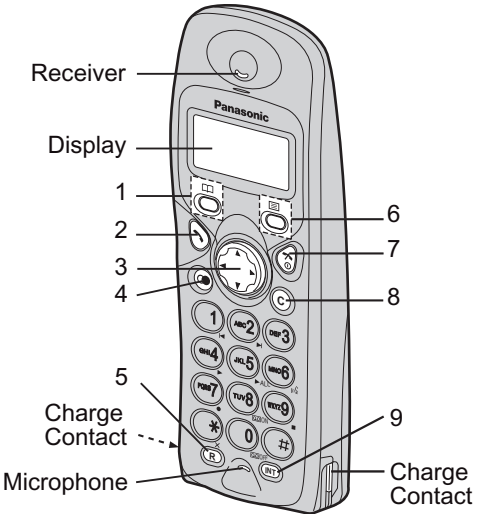
5 
Search/Select "NI-CD" or "NI-MH".

- To exit the operation, press any time.
- Do not use non-rechargeable batteries. If non-rechargeable batteries are fitted and start charging, it may cause the leakage of the battery electrolyte.

Please use only Panasonic HHR-4EPT(Ni-MH) or P-4NPT(Ni-Cd) batteries.

Location of Controls

Handset



1 - : **PHONEBOOK** Button

2 - **TALK** Button

3 - Navigator Key

4 - **REDIAL/PAUSE** Button

5 - **RECALL** Button

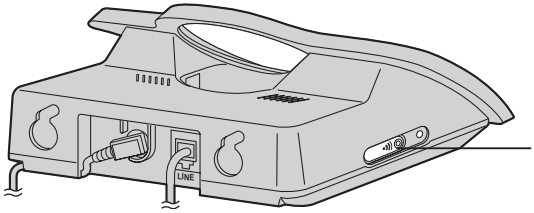
6 - : **MENU/OK** Button

7 - **OFF/POWER** Button

8 - **CLEAR** Button

9 - **INTERCOM** Button

Base unit



PAGE Button and Indicator

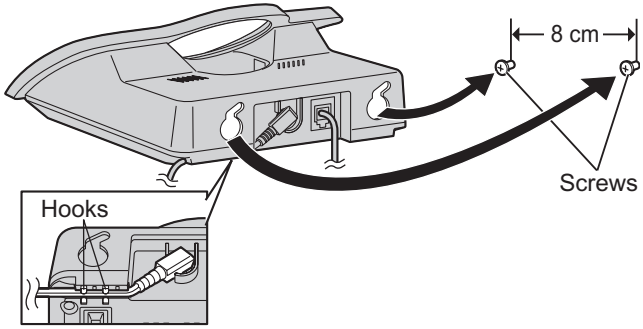
Handset Display

- Within range of a base unit
- Out of range/No registration/ No power on base unit
- Paging
- Making or answering calls
- Phonebook Mode
- In Setting Mode
- Battery strength is low.
- Battery strength is high.
- Answering System ON
- Call BAR ON (p. 22)
- Direct Call ON (p. 23)
- Key Lock ON (p. 24)
- Ringer Volume OFF (p. 20)

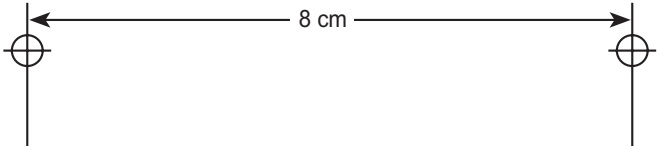
Wall Mounting

This unit can be mounted on a wall.

- Insert screws into the wall. The centre of the screw hole should be 8 cm horizontally apart.
- Connect the AC adaptor and the telephone line cord.
- Arrange the wires as shown, then mount the unit.



Wall Template



Power On/Off

Power on

Press for more than 1 second.*1

Power off

Press for more than 2 seconds.*2

*1 When button is released, the display changes to the standby mode.
*2 The display goes blank.

Making a Call

Pre-dialling

1 **Phone Number***1 **2** Press **TALK**.

Post-dialling

1 Press **TALK**. **2** **Phone Number**

*1 If you need correction, press **CLEAR**. Digit is cleared to the left, then enter numbers.

Answering a Call

Press **TALK**.*1

Terminating a Call

(During a call) ➧ Press **OFF**.

- Each ringer will start ringing with lower volume then gradually increase the volume when receiving a call.

*1 You can also answer a call by pressing any dialling button, **INTERCOM**, # or *.

Setting the Clock/Date

After a mains power failure the clock needs to be reset. Ensure that icon is not flashing.

1 Press **MENU**.
2 Search/Select "SETTING BS". ➧ "INPUT CODE"
3 ➧ **Time** Enter time. 4-digit (24 hour clock)*1
4 Press **OK**.
5 Press **RIGHT**. ➧ "INPUT CODE"
6 twice ➧ **Date** Enter day, month then year.*2
7 Press **OK**.

- To exit the operation, press any time.

*1 For example, to set 7:15, enter 0715.
*2 For example, to set the 16th of February, 2003, enter 160203.

Redialling

The last 10 numbers dialled are stored in the redial list automatically.

Dialling with the Redial List

1 Press **REDIAL**.*1
2 Search the desired dialled item.
3 Press **TALK**.

Dialling the Last Number Dialled

1 Press **TALK**.
2 Press **REDIAL**.

Editing the Dialled Number in the Redial List

1 Press **REDIAL**.*1
2 Search/Select the desired dialled item.
3 Search/Select "EDIT CALL NO". ➧ The 1st digit of the desired dialled number blinks.
4 Move cursor.
5 Press **CLEAR**.*2
AND/OR
Number Edit the phone number.*3
6 Press **TALK**.
OR
Press **OK** 3 times to store the number. ➧ If you need to store a name, go to **Name** on page 15 or press **OK**.

Clearing One/All Dialled Item(s) in the Redial List

1 Press **REDIAL**.*1
2 Search/Select the desired dialled item.
3 Search/Select "CLEAR" or "ALL CLEAR".
4 Search/Select "YES".

- To exit the operation, press ⏻ any time.

*1 If there is no item stored in the redial list, the display shows "NO ITEM".
*2 Digits are cleared to the left of the flashing digit.
*3 Digits are added to the left of the flashing digit. If you need to clear and/or add more than one number, repeat from step **4**.

Caller ID Service

Caller ID is a service of your Network provider and will only operate if you have subscribed to this feature.
After subscribing to Caller ID, this phone will display the caller information.
If your unit is connected to a PBX or a telephone line that does not support this service, you will not be able to use it.
Caller ID does not display caller information while using the handset for an intercom call. However, the caller information will be stored to the Caller ID List.
For all local and national incoming calls put, your display will show the area code (e.g. 09 for Auckland) or the cellular prefix (e.g. 025 for Telecom Cellular) followed by the caller's telephone number. An Auckland caller's number will be displayed as 09XXXXXXX. The seven X's represent the seven digits of the caller's telephone number. A call from a 7-digit Telecom Cellular number will be displayed as 025XXXXXXX. For incoming international calls put, your display may only show the digits "0000". For business users on a Centrex line, your display will show the Centrex extension numbers in the shorter extension number format used within your company.
Call Waiting: Call Waiting is a service of your Network provider and will only operate if you have subscribed to this service.
You can answer the second call, keeping the first call on hold.
Please consult your Network provider for details of this service.

For Using Telecom's or Another Company's Toll Services

Your telephone company may charge you for a local call if the number dialled has the area code prefix included. If the charge for local call is unacceptable, only the 7-digits of the local number should be dialled from your telephone. Do not dial the "0" prefix or the area code digit.

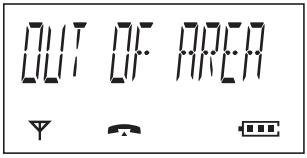
Caller ID

Caller ID Display

When receiving a call, the display shows its phone number.
For example, a caller whose phone number is 01234567890 has been received.

If you store a phone number with a name in the phonebook, the display shows caller's name when receiving a call.

If the caller has requested not to display his/her information, the display shows "PRIVATE".



If the caller dialled from an area which does not provide Caller ID service, the display shows "OUT OF AREA".

When new calls have been received, the display shows the numbers of calls.
For example, 4 new calls have been received.

Caller ID List

Information up to 50 different callers is stored from the most recent call to the oldest call in the caller list. When the 51st call is received, the oldest caller information is cleared. If you receive a call from the same phone number you stored with a name in the phonebook, the display will show the caller's name.

Calling Back

1 Search the desired received item.*1

2 Press **TALK**.

Editing the Received Number in the Caller List

The caller's telephone number, which is sent to your telephone from your local telephone exchange, includes the "0" and area code prefix. For local calls, the "0" and area code prefix can be omitted. See page 11 "For Using Telecom's or Another Company's Toll Services" for more information.

1 Search/Select the desired received item.*1

2 Search/Select "EDIT CALL NO". ➧ The 1st digit of the desired received number blinks.

3 Move cursor.

4 Press **CLEAR**.*2

AND/OR

Number Edit the number.*3

5 Press **TALK**.

OR

Press **OK** 3 times to store the number. ➧ If you need to store a name, go to **Name** on page 15 or press **OK**.

Clearing One/All Received Item(s) in the Caller List

1 Search/Select the desired received item.*1

2 Search/Select "CLEAR" or "ALL CLEAR".

3 Search/Select "YES".

- To exit the operation, press any time.

*1 If there is no item stored in the caller list, the display shows "NO ITEM". on the right edge of the display when searching the item in the caller list indicates that the item has been already shown previously.

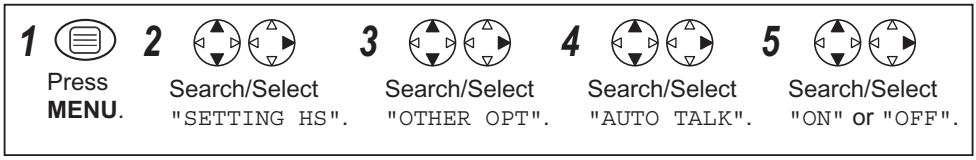
*2 Digits are cleared to the left of the flashing digit.

*3 Digits are added to the left of the flashing digit. If you need to clear and/or add more than one number, repeat from step **3**.

Answering Calls

Auto Talk

If you set Auto Talk to on, you can answer the phone by lifting the handset off the base unit.



- To exit the operation, press any time.

Temporary Bell Off

When an external call is incoming, you can temporarily turn off the handset ringer. This function will not work when the handset is on the base unit or if an internal call is incoming.

Receiver Volume

During a call, press **UP** or **DOWN** to change the volume setting to LOW (0), MEDIUM (00), HIGH (000).

Handset Locator/Paging

Using this feature, you can locate a misplaced handset by paging.

1 Press on the base unit. **2** All registered handsets ring for 1 minute.

<To stop paging>

3 Press on the base unit **OR** *1 on one of the handsets.

*1 You can also stop paging by pressing any dialling buttons, **INTERCOM**, # or *.

You can store up to 20 caller information in the phonebook. If you received a call from the same phone number you stored with a name in the phonebook, the display will show the caller's name.

Storing a Caller Information

1 Press **MENU**.

2 Select "NEW PHONE".

3 **Phone Number**
Enter phone number. (max. 24 digits)*1

4 Press **OK**.

5 **Name**
Enter name. (max. 9 characters)*1

6 Press **OK**.*2

- To exit the operation, press any time.

*1 If you need to make a correction, press **RIGHT** or **LEFT** to move the cursor then clear the digit/character by pressing **CLEAR**, and/or enter digits/characters. Digits/characters are cleared or added to the left of the flashing digit/character. To enter digits/characters, see Character Selection below.

*2 To continue storing another caller information, repeat from step **3**.

Character Selection

Keys	Number of times key is pressed								Keys	Number of times key is pressed				
	1	2	3	4	5	6	7	8		1	2	3	4	5
1	#	[	]	*	,	-	/	1	6	M	N	O	6	
2	A	B	C	2					7	P	Q	R	S	7
3	D	E	F	3					8	T	U	V	8	
4	G	H	I	4					9	W	X	Y	Z	9
5	J	K	L	5					0	Blank	0			

Character Table

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y

Z	1	2	3	4	5	6	7	8	9	*	0	#	-	/	[	]	,

Phonebook

Editing a Caller Information

1 Press **PHONEBOOK**.*1

2 Search/Select desired item.

3 Select "EDIT". ➧ The 1st digit of the desired phone number blinks.

<Phone Number>

4 Move cursor.

5 Press **CLEAR**.*2

AND/OR

Number Edit the phone number.*3

6 Press **OK**.

<Name>

7 Move cursor.

8 Press **CLEAR**.*2

AND/OR

Name Edit the name.*4

9 Press **OK**.

Clearing a Caller Information

1 Press **PHONEBOOK**.*1

2 Search/Select desired item.

3 Search/Select "CLEAR".

4 Search/Select "YES".*5

Dialling with the Phonebook

1 Press **PHONEBOOK**.*1

2 Search desired item.

3 Press **TALK**.

- To exit the operation, press ⏻ any time.

*1 If there is no item stored in the phonebook, the display shows "NO ITEM".
*2 Digits are cleared to the left of the flashing digit.
*3 Digits are added to the left of the flashing digit. If you need to clear or add more than one digit, repeat from step **4**.
*4 Characters are added to the left of the flashing character. If you need to clear or add more than one character, repeat from step **7**.
*5 To continue clearing another caller information, repeat from step **2**.

Storing the Phone Number into the Phonebook When Pre-dialling

1 **Phone Number***1

2 Press **OK** to store the number.

3 Press **OK** twice.

4 **Name**
Enter name.*2

5 Press **OK**.

- To exit the operation, press any time.

*1 If you need correction, press **CLEAR**. Digit is cleared to the left, then enter numbers.
*2 To enter characters, see Character Selection on page 15.

Storing the Number from the Redial/Caller List into the Phonebook

1
Press **REDIAL**.*1 → Search/Select the desired dialled number.

OR

Search/Select the desired received number.*1

2 Search/Select "SAVE TEL NO".*2

3 Press **OK**.

4
If you need to store a name, go to **Name** on page 15.

OR

Press **OK**.

- To exit the operation, press any time.

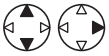
*1 If there is no item stored in the redial/caller list, the display shows "NO ITEM".
*2 If you need correction, press **RIGHT** or **LEFT** to move cursor then clear a digit by pressing **CLEAR**, and/or enter digits. Digits are cleared or added to the left of the flashing digit.

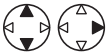
Hot Key

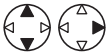
You can assign the dialling buttons 1 through 9 as hot keys. You can choose 9 phone numbers from the phonebook.

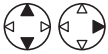
Registering a Phone Number as a Hot Key

1 Press **PHONEBOOK**.*1

2  Search/Select desired item.

3  Search/Select "HOT KEY REG".

4  Search/Select desired dialling button number.*2

5  Search/Select "YES".

Dialling with Hot Key

1 Press and hold the dialling button registered as a hot key.

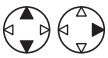
2 Press **TALK**.

Clearing the Hot Key Registration

1 Press and hold the dialling button registered as a hot key.

2 Press **RIGHT**.

3 Select "CLEAR".

4  Search/Select "YES".*3

- To exit the operation, press any time.

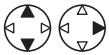
*1 If there is no item stored in the phonebook, the display shows "NO ITEM".
*2 The number is flashing if the dialling button is already assigned as a hot key.
*3 Phonebook registration will be remained even hot key registration is cleared.

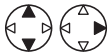
TIME ALARM : Time Alarm

Before programming, please follow steps 1 to 3.

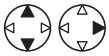
You must set the clock before setting the time alarm.

1 Press **MENU**.

2  Search/Select "SETTING HS".

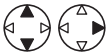
3  Search/Select "TIME ALARM".

Setting Alarm Time

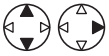
4  Search/Select "SET TIME".

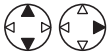
5 **Time** Enter time. 4-digit (24 hour clock)

6 Press **OK**.

7  Search/Select "OFF", "ONCE" or "REPEAT DAILY".

Setting Time Alarm On/Off

4  Search/Select "SET ALARM".

5  Search/Select "OFF", "ONCE" or "REPEAT DAILY".

- To exit the operation, press any time.

To stop time alarm: Time alarm will sound for 3 minutes. When the alarm sounds, press any dialling buttons or key. Alarm stops and display returns to the standby mode.
If "ONCE" is selected, the setting is turned off. When in talk or intercom mode, the alarm will not sound until the call is ended.

RINGER OPT : Ringer Option

Before programming, please follow steps 1 to 3.

1 Press **MENU**.

2 Search/Select "SETTING HS".

3 Search/Select "RINGER OPT".

Setting the Ringer Volume
The choices are 6 levels and off.

4 Search/Select "RINGER VOL".

5 Search/Select desired ringer volume.

- If "RINGER OFF" is selected, -0- is displayed.

Setting the Ringer Pattern for External Call/Internal Call/Paging/Alarm
There are 20 patterns available on each ringer.

4 Search/Select "EXT RINGER", "INT RINGER", "PAGING" or "ALARM".

5 Search/Select desired ringer pattern.*1

- To exit the operation, press C any time.
- Each ringer will start ringing with lower volume then gradually increase the volume when receiving a call.

*1 If you select one of the melody ringer patterns, it keeps ringing for 10 seconds even if a caller hangs up a call. Therefore, you may hear dial tone or no one there after you answer a call.

TONE OPT : Tone Option

You can set the following sounds on or off.

Key Tone: Key tone will sound when you press any key, and a confirmation tone and an error tone will be heard during operation.

Call Waiting Tone: Call waiting tone will sound when an incoming external call is received during an intercom call.

Range Warning Alarm: Alarm will sound when you move out of range of a base unit.

Battery Low Alarm: Alarm will sound when the batteries need to be charged.

1 Press **MENU**.

2 Search/Select "SETTING HS".

3 Search/Select "TONE OPT".

4 Search/Select "KEY TONE", "CALL WAITING", "RANGE ALARM" or "BATTERY LOW".

5 Search/Select "ON" or "OFF".

- To exit the operation, press ⏻/C any time.

DISPLAY OPT : Display Option

Selecting the Standby Mode Display

1 Press **MENU**.

2 Search/Select "SETTING HS".

3 Search/Select "DISPLAY OPT".

4 Search/Select "STANDBY MODE".

5 Search/Select "CLOCK",*1 "OFF", "BS NO"(Base unit number) or "HS NO"(Handset number).

- To exit the operation, press ⏻/C any time.

*1 Time will only be displayed if the clock has been set. When new calls have been received, the display shows the number of new call.

Handset Settings

Before programming, please follow steps 1 to 3.

1 Press **MENU**. **2** Search/Select "SETTING HS". **3** Search/Select "DISPLAY OPT".

Selecting the Talk Mode Display

Even if you select "PHONE NO", the other party's phone number will not appear on your display when you receive calls without subscribing to a Caller ID service.

4 Search/Select "TALK MODE". **5** Search/Select "TALK TIME"(Length of the call) or "PHONE NO"(Phone number).

Selecting the Display Language

4 Search/Select "LANGUAGE". **5** Search/Select desired language.*1

- To exit the operation, press any time.

*1 You can select one of 10 languages. If you set a language you cannot read, reset the handset to its initial settings.
Press **MENU** ➧ **DOWN** ➧ **RIGHT** ➧ **UP** ➧ **RIGHT** ➧ **4-digit Handset PIN** ➧ **UP** ➧ **OK**.
All handset setting will be reset to their initial settings (p. 27), however, the Phonebook data will be saved.

CALL OPT : Call Option

Call BAR On/Off

This allows you to bar all calls except emergency and internal calls.

1 Press **MENU**. **2** Search/Select "SETTING HS". **3** Search/Select "CALL OPT". **4** Search/Select "CALL BAR".

5 **4-digit Handset PIN** Factory preset 0000 **6** Search/Select "ON" or "OFF".*1

- To exit the operation, press any time.

*1 If "ON" is selected, ·· 1 ·· is displayed.

Before programming, please follow steps 1 to 3.

1 Press **MENU**. **2** Search/Select "SETTING HS". **3** Search/Select "CALL OPT".

Setting the Direct Call Number

After a direct call number has been set and on, you can dial the direct call number only by pressing **TALK**. Incoming calls are accepted.

4 Search/Select "DIRECT NO". **5 Phone Number** Enter the direct call number. (max. 24 digits) **6** Press **OK** 3 times.*1

Setting the Direct Call On/Off

4 Search/Select "SET DIRECT". **5** Search/Select "ON" or "OFF".*1

- To exit the operation, press ⏻ any time.

*1 If "ON" is selected, ⚷ is displayed.

OTHER OPT : Other Options

Changing Handset PIN

The factory preset is 0000. **Once you have programmed the handset PIN, you cannot confirm it. We recommend you write down the handset PIN. If you forget it, please consult your nearest Panasonic Service Centre.**

1 Press **MENU**. **2** Search/Select "SETTING HS". **3** Search/Select "OTHER OPT". **4** Search/Select "HSPIN CHANGE".

5 Current 4-digit Handset PIN **6 New 4-digit Handset PIN**

7 New 4-digit Handset PIN again to verify

- To exit the operation, press ⏻ any time.

Handset Settings

Key Lock

You can lock the handset dialling buttons. Only incoming calls are accepted while the key lock is on. The key lock is cancelled if the handset is turned off.
When the key lock is on, emergency calls cannot be made until key lock is cancelled.

Key Lock On	**Key Lock Off**
Press **OK** for more than 2 seconds.	Press **OK** for more than 2 seconds.

- is displayed and all dialling buttons are locked.

Recall Feature

RECALL is used to access special telephone services. Contact your Network provider for details. If your unit is connected to a PBX, pressing **RECALL** allows you to access some features of your host PBX such as transferring an extension call.

Dialling Pause (for PBX line/long distance service users)

A dialling pause is used when a pause in the dialling of the phone number is necessary using a PBX or accessing a long distance service.
For example, when 9 (line access number) is dialled followed by a pause to access an outside line through a PBX:

1 9	**2**	**3** **Phone Number**	**4**
	Press **PAUSE**.*1		Press **TALK**.

- Entering a pause prevents misdialling when you redial or dial a stored number.
- Pressing **PAUSE** once creates one pause. To extend the pause requirement time, press **PAUSE** accordingly.

*1 is displayed on the LCD.

Before programming, please follow steps 1 to 2.

1 Press **MENU**. **2** Search/Select "SETTING BS". ➧ "INPUT CODE"

Changing Base Unit PIN

The factory preset is 0000. **Once you have programmed the base unit PIN, you cannot confirm it. We recommend you write down the base unit PIN. If you forget it, please consult your nearest Panasonic Service Centre.**

3 5 **4 Current 4-digit Base Unit PIN** **5 New 4-digit Base Unit PIN**

6 New 4-digit Base Unit PIN again to verify

Call Restriction

You can restrict selected handset(s) from dialling selected phone numbers. You can assign up to 10 call restriction numbers (up to 8 digits). If you dial a restricted number, the call does not connect and restricted number flashes.

3 6 **4 4-digit Base Unit PIN**
Factory preset 0000

5 Handset Number
Select desired handset number.*1

6 Press **RIGHT**.

7 Phone Number
Enter phone number to be restricted.
(up to 8 digits)

8 Press **RIGHT**.

9 Press **OFF**.

OR

To continue entering call restriction numbers, repeat the steps **7** to **8**.
(up to 10 numbers)

Cancelling Call Restricted Handset(s)

3 6 **4 4-digit Base Unit PIN**
Factory preset 0000

5 Handset Number
Select desired handset number.*2

6 Press **RIGHT**.

7 Press **OFF**.

- To exit the operation, press any time.

*1 The selected handset number flashes.
*2 The selected handset(s) number(s) will stop flashing.

Base Unit Settings

Before programming, please follow steps 1 to 2.

1 Press **MENU**. **2** Search/Select "SETTING BS". ➧ "INPUT CODE"

Cancelling Call Restricted Number

3 6 **4** **4-digit Base Unit PIN** Factory preset 0000 **5** Press **RIGHT** repeatedly until desired call restriction number is displayed. **6** Press **CLEAR**.

7 Press **RIGHT**. **8** **<to continue>** Repeat the steps **5** to **7**. **OR** **<to finish>** Press **OFF**.

Selecting the Flash Timing

You can select the flash timing, 100 msec (milliseconds), or 600 msec depending on your PBX requirements.

3 3 **4** **4-digit Base Unit PIN** Factory preset 0000 **5** 2 **6** 1 **7** 1 100msec **OR** 2 600msec **8** Press **OK**.

Pause Timing

You can set the pause timing to 3 or 5 seconds, depending on your PBX requirements.

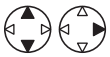
3 3 **4** **4-digit Base Unit PIN** Factory preset 0000 **5** 3 **6** 1 3 Seconds **OR** 2 5 Seconds **7** Press **OK**.

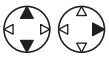
- To exit the operation, press OFF any time.
- The factory preset is in shade.

◆◆ RESET HS : Reset Handset Settings

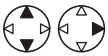
You can reset all of the handset settings to their initial settings.

1 Press **MENU**.

2  Search/Select "SETTING HS".

3  Search/Select "RESET HS".

4 **4-digit Handset PIN**
Factory preset 0000

5  Search/Select "YES" or "NO".

- To exit the operation, press any time.

Handset Initial Settings

Function	Initial Setting
Time Alarm Mode	OFF
Alarm Time	Clear
Handset Ringer Volume	6
Handset External Ringer Pattern	1
Handset Internal Ringer Pattern	1
Handset Paging Tone Pattern	1
Handset Alarm Tone Pattern	1
Key Tone	ON
Call Waiting Tone	ON
Range Warning Alarm	OFF
Battery Low Alarm	ON
Standby Mode Display	Clock
Talk Mode Display	Length of the Call
Display Language	English
Call BAR	OFF
Direct Call Mode	OFF
Direct Call Number	Clear
4-Digit Handset PIN	0000
Auto Talk	OFF
Base Unit Access	Automatic Base Unit Access
Redial Memory	All Clear
Handset Receiver Volume	Medium

Reset Base Unit Settings

If the base unit is reset, the Caller ID list will clear.

1 Press **MENU**. **2** Search/Select "SETTING BS". ➧ "INPUT CODE" **3** 0

4 **4-digit Base Unit PIN**
Factory preset 0000

5 Press **OK**.

- To exit the operation, press C any time.

Base Unit Initial Settings

Function	Initial Setting
Ringer Mode	All Handsets
Number of Rings	3
Flash Timing	600 msec
Pause Timing	3 seconds
Call Restricted Handsets	All Clear
Call Restriction Numbers	All Clear
4-Digit Base Unit PIN	0000

◆◆ REGISTRATION: Handset Registration to a Base Unit

Handset Registration

The handset supplied with the base unit is already registered. If an optional handset is purchased, it must be registered. Additional **KX-A142NZ** handsets are available to purchase separately. Up to 6 handsets can be registered to a single base unit. Using additional handsets allows you to have an intercom call while simultaneously conducting a call to an outside line.

Handset must be registered within 1 minute after pressing **PAGE** button. If over 1 minute, press (CLEAR) then start over again.

Charge the optional handset batteries for 7 hours before initial use.

1 (MENU) Press **MENU**.

2 (▲▼) Search/Select "SETTING HS".

3 (▲▼) Search/Select "REGISTRATION". ➧ "REGISTER HS"

4 (▶) Press **RIGHT**.*1

5 **Press and hold (INTERCOM) on the Base Unit (for about 5 seconds) until the green indicator flashes.**
- If all registered handsets start ringing (Paging), press (INTERCOM) to stop paging then start over again.

6 (▲▼) Search/Select desired base unit number available to register the handset.

7 **4-digit Base Unit PIN after "BS PIN" is displayed.** Factory preset 0000

8 (OK) Press **OK**. ➧ When a handset is registered successfully, a confirmation tone sounds and ⊼ icon lights.

- To exit the operation, press (CLEAR) any time.

*1 If a handset has been already registered to 4 base units, "MEMORY FULL" is displayed.

Multi-unit User Operation

Cancelling a Base Unit

You can cancel any base unit that your handset is registered to.

1 Press **MENU**.

2 Search/Select "SETTING HS".

3 Search/Select "REGISTRATION".

4 Search/Select "CANCEL BS".

5 **4-digit Handset PIN**
Factory preset 0000

6 Search/Select desired base unit number to cancel.*1

7 Press **RIGHT**.

8 Search/Select "YES" or "NO".

Cancelling a Handset

Each handset can cancel itself or another handset.

1 Press **MENU**.

2 Search/Select "SETTING BS".

➧ "INPUT CODE"

3 7

4 **4-digit Base Unit PIN**
Factory preset 0000

5 **Handset Number**
Select desired handset number.*2

6 Press **OK**. ➧ Please wait until "SETTING BS" is displayed.

- To exit the operation, press C any time.

*1 The selected base unit number flashes.
*2 The selected handset number flashes.

Before programming, please follow steps 1 to 4.

1 Press **MENU**. **2** Search/Select "SETTING BS". ➧ "INPUT CODE" **3** 1 **4** **4-digit Base Unit PIN**
Factory preset 0000

Ringer Mode Selection;
Setting the All Handsets Mode

5 1
All handsets mode
6 Press **OK**.

Setting the Selected Handsets Mode

5 2
Selected handsets mode
6 **Handset Numbers***1
Press desired handset numbers.
7 Press **OK**.

Setting the Selected then All Handsets Mode
The specific handset(s) will ring for a selected number of rings.
If not answered, all handsets will ring.

5 3
Selected then all handsets mode
6 **Handset Numbers***1
Press desired handset numbers.
7 Press **RIGHT**.
8 **Number of Rings***2
Select how many times it rings. (up to 6 rings)
9 Press **OK**.

- To exit the operation, press C any time.
- The factory preset is in shade.

*1 The selected handset number flashes.
*2 Press dialling button 1 through 6 to enter the number of rings.

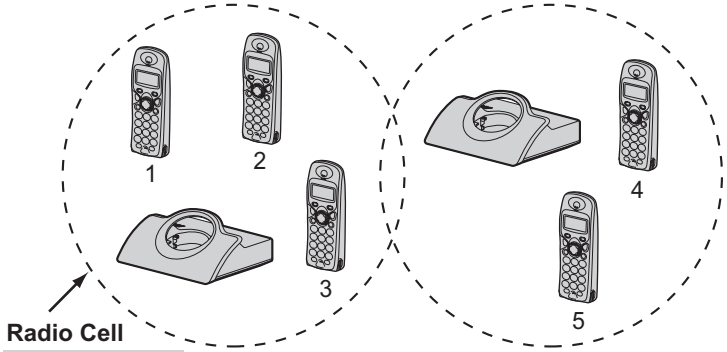
SELECT BS : Base Unit Selection

When Automatic Base Unit Access is selected, if you move outside of the radio range of the current base unit the handset automatically searches for other registered bases. When a specified base unit is selected, the handset will access that base unit only. Calls (both incoming and outgoing) can be conducted only via the selected base unit, even if the radio cells overlap with neighbouring base units.

1	2	3	4
Press **MENU**.	Search/Select "SETTING HS".	Search/Select "SELECT BS".	Search/Select "AUTO" or specific base unit number.

- To exit the operation, press any time.
- Even if "AUTO" is selected, it is cancelled when the handset is registered to the other base unit.

Operating Additional Base Units: You can register and operate your handset with up to 4 base units. Each base unit forms 1 radio cell. If the individual bases are linked to the same telephone line then you can extend the operating range of the system by positioning the bases so that the two radio cells overlap. If the handset is set to AUTO base selection, then in standby mode the handset will automatically swap to the second base if the range on the first base is exceeded. It is not possible to transfer calls between bases (only between handsets linked to the same base unit).

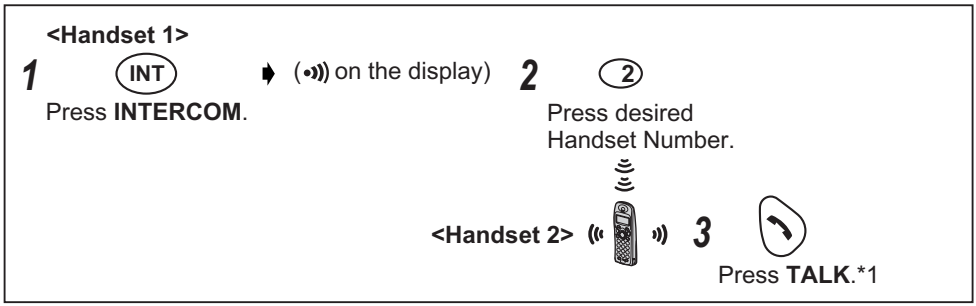


E.g. Additional handsets (KX-A142NZ) registered with 2 base units.

Note: Calls are disconnected when the handset moves from one radio cell to another.

Intercom between Handsets

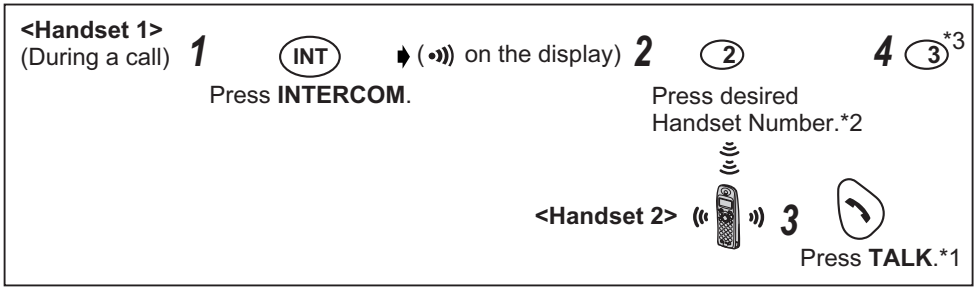
You can use your handsets as a 2-way intercom.
For example, when Handset 1 calls Handset 2. To hang up, press .



- Intercom calls can be conducted within the radio cell of the current base unit, but not with units in neighbouring radio areas.

Transferring a Call to Another Handset/Conference Call

The intercom can be used during a call to transfer an external call between handsets that are registered to the same base unit. For example, when handset 1 transfers a call to Handset 2. To hang up, press .



*1 You can also press any dialling button, **INTERCOM**, # or *.

*2 If you press after pressing desired handset number, a call can be transferred to another handset without speaking to another handset.
If the transferred call is not answered within 30 seconds, Handset 1 will ring again.

*3 When Handset 2 answers a call transferred, press to complete a call transfer or press dialling button 3 to establish the conference call.

Answering System

Summary of Answering System

Before programming, please follow steps 1 to 2.

1 (INT)
Press **INTERCOM**.

2 (#)

Press (1)	To repeat an/a incoming/memo message during playback. (p. 36)
Press (2)	To skip an/a incoming/memo message during playback. (p. 36)
Press (4)	To playback new incoming/memo message(s). (p. 36)
Press (5) ▶ALL	To playback all incoming/memo message(s). (p. 36)
Press (6)	To playback a greeting message. (p. 35)
Press (7) (4)	To record a memo message. (p. 36)
Press (7) (6)	To record a greeting message. (p. 35)
Press (8) ON	To set the answering system ON. (p. 37)
Press (9)	To stop the answering system operation. (p. 36)
Press (0) OFF	To set the answering system OFF. (p. 37)
Press (*) (4)	To erase one incoming/memo message.*1 (p. 36)
Press (*) (5) ▶ALL	To erase all incoming/memo message(s). (p. 37)
Press (*) (6)	To erase the recorded greeting message.*2 (p. 35)

*1 These functions are available only during incoming/memo message playback.
*2 This function is available only during your own greeting message playback.

Greeting Messages

You can choose to use one of two pre-recorded greeting messages, or you can record your own greeting message.
All messages (greeting, incoming & memo) are stored indefinitely on a “Flash memory” IC chip - even if a power failure occurs.

Pre-Recorded Greeting Messages

You can choose to play either:
- A pre-recorded message which allows you to select a caller’s recording time of “1 minute” or “unlimited” (up to 20 minutes).

When the recording time is set to “1 minute” or “unlimited”.
- “Hello, we are not available now. Please leave your name and phone number after the beep. We will return your call.”
  OR
- A “greeting only”. If you select “greeting only” (p. 37) and set the answering system ON, the unit will answer a call with a greeting message, then hang up. **It will not record any incoming messages.**

When the recording time is set to “greeting only”.
- “Hello, we are not available now. Please call again. Thank you for your call.”

To Playback Pre-Recorded/Your Own Greeting Message

1 (INT) Press **INTERCOM**. *2* (#) *3* (6) ➧ The greeting message is played.

Recording Your Own Greeting Message

The total recording time is approximately **20 minutes**. The greeting recording time is limited to 2 minutes and 30 seconds.
We recommend you record a brief greeting message in order to leave more time for recording new incoming/memo messages.

1 (INT) Press **INTERCOM**. *2* (#) *3* (7) *4* (6) *5* Talk clearly to the microphone.*1 *6* (9)

*1 The display starts to show the length of the recording time.

Clearing a Greeting Message

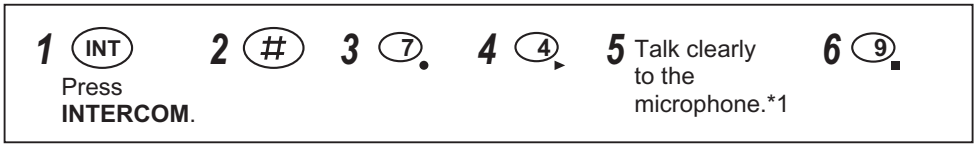
1 (INT) Press **INTERCOM**. *2* (#) *3* (6) *4* (✳) *5* (6)

Answering System

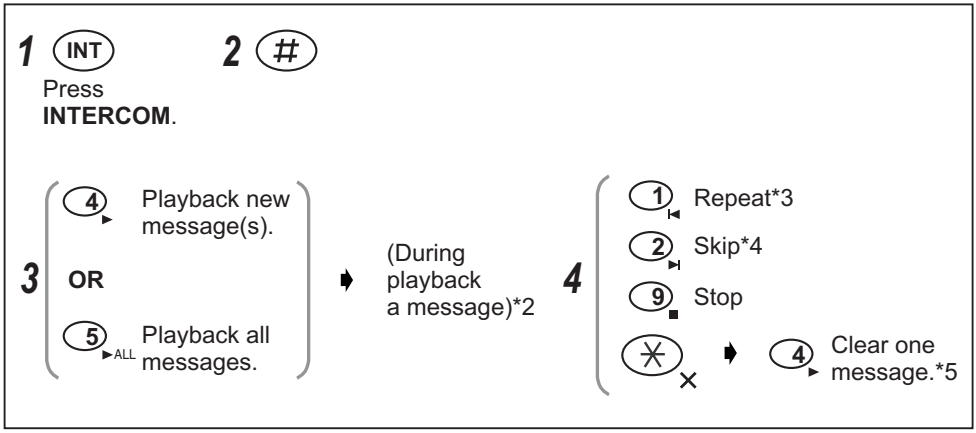
Incoming/Memo Messages

Incoming messages and memo messages are stored in chronological order. New messages cannot be recorded when "Memory full" is heard. We recommend you erase unnecessary messages after each playback to leave more time for recording new message(s).
If new message(s) is/are recorded, icon on the handset display will flash. When the memory is full, it will flash faster.
If you set the clock and current date then set the answering system ON, a synthesized voice announces the day and time incoming/memo message was recorded after playback.

Recording a Memo Message



Playback New/All Incoming/Memo Message(s)



*1 The display starts to show the length of the recording time.

*2 If a call is received while you are listening to a message, call waiting tone sounds. Press to stop playback, then press **TALK** after ringing to answer the call.

*3 If you press within 5 seconds from the start of playback, the previous message will be played. If you press after 5 seconds from the start of playback, the current message will be played.

*4 The next message will be played if recorded.

*5 If you erase a message when there is more than one message in memory, the next message will begin playback.

Clearing All Incoming/Memo Messages

1 INT Press **INTERCOM**. 2 # 3 * 4 5 ALL

Selecting the Caller's Recording Time

You can select "1 minute", "unlimited" or "greeting only" for the caller's recording time.

1 Press **MENU**. 2 Search/Select "SETTING BS". ➧ "INPUT CODE"

3 # 4 3 5
- 1 1 minute
- 2 Unlimited
- 3 Greeting only*1

6 Press **OK**.

- The factory preset is in shade.

*1 "-- --" is displayed.

Recording Your Telephone Conversation

All persons using this device for recording telephone conversations shall comply with New Zealand law. This requires that at least one party to the conversation is to be aware that it is being recorded. In addition, the principles enumerated in the Privacy Act 1993 shall be complied with in respect to the nature of the personal information collected, the purpose for its collection, how it is used and what is disclosed to any other party. During recording, a beep will sound approximately every 15 seconds.

(During conversation) 1 Press **MENU**. 2 # ➧ "RECORDING" is displayed. 3 ➧ # Press **OK** then # to end recording.

Answering System On/Off

When you set the answering system ON, a caller can leave his/her messages.

1 INT Press **INTERCOM**. 2 # 3
- 8 ON On ➧ is displayed.
- 0 OFF Off

Before programming, please follow steps 1 to 2.

1 Press **MENU**. **2** Search/Select "SETTING BS". ➧ "INPUT CODE"

Recording Quality

It is possible to select either high quality or normal quality recording of incoming messages. Available recording time will vary as follows:

Quality	Recording Time
Normal:	**Approx. 20 minutes**
High:	**Approx. 10 minutes**

3 # **4** 8 ON **5** 1 ON (High) OR 2 OFF (Normal) **6** Press **OK**.

- The factory preset is in shade.

Selecting the Number of Rings

You can select the number of times the unit rings before the answering system answers a call, from 2 to 7 or Auto (for Toll Saver*).

* Toll Saver (When set to “Auto”)
When you call the unit from a touch tone telephone:
If the unit answers on the 2nd ring, there is at least one new message.
If the unit answers on the 5th ring, there are no new messages.
Hang up when you hear the 3rd ring. This will save you the toll charge for the call.

3 # **4** 2 **5** 0 OFF AUTO OR 2 ⋮ 7 The unit will answer after the selected number of rings. **6** Press **OK**.

- The factory preset is in shade.

Before programming, please follow steps 1 to 2.

1 Press **MENU**. **2** Search/Select "SETTING BS". ➧ "INPUT CODE"

Monitor Function On/Off

When your greeting message is being played to the caller and the caller's message is being recorded, you can listen to it through the handset.

3 # **4** 4 **5** 1 Off **OR** 2 On **6** Press **OK**.

- The factory preset is in shade.

Setting the Remote Code

The 3-digit remote code prevents unauthorised use of your unit for listening to recorded incoming/memo messages.

3 # **4** 1 **5** Enter a 3-digit remote code number to set on. **OR** ✳ Off **6** Press **OK**.

Remote Operation

Remote Operation from a Touch Tone Phone

You can operate the answering system from any touch tone phone.

Firstly you must store your remote code using the handset near the base unit.

The 3-digit remote code prevents unauthorised use of your answering system for listening to recorded messages.

Turning ON the Answering System Remotely

1. Call your unit from a touch tone phone and wait for 15 rings.
2. Enter the remote code within 10 seconds of hearing the long beep.
3. The unit answers and the greeting message is played.
4. Enter the remote code to access the voice menu.
5. A synthesized voice menu will guide you on how to operate the answering system.
6. Follow the menu or enter the direct remote commands.
7. To end the remote operation, hang up.

- If your remote code is not stored, you cannot turn on the answering system remotely.

Direct Remote Commands

After entering the remote code, you can choose to operate your answering system using direct commands as below, in place of listening to the voice menu. Hang up to end the remote operation at any time.

1	Repeat message (during playback)*1	9	Stop operating
2	Skip message (during playback)	0	Answering system off
4	New message playback	✳ 4	Erasing specific message (during playback)
5	All message playback	✳ 5	Erasing all messages
6	Greeting message playback	✳ 6	Erasing greeting messages (during playback)
7 ⬇ **Record**	Greeting message recording	✳ #	Disconnect

*1 If you press within 5 seconds from the start of playback, the previous message will be played. If you press after 5 seconds from the start of playback, the current message will be played.

Voice Menu

The words in “ ” mean a voice guidance.

	Press (1). →	
Press (2).	“Press 1 to playback all messages. Press 2 for other functions.”	“All message playback.” At the end of the last message, “End of final message” and the remaining recording time are announced.
Press (2).	“Press 1 to playback new messages. Press 2 for other functions.”	“New message playback.”
Press (2).	“Press 1 to record your messages. Press 2 for other functions.”	“Please leave your message.” Talk after you hear this message. ➧ Hang up
Press (2).	“Press 1 to erase all messages. Press 2 for other functions.”	“No message.”
Press (2).	“Press 1 to record your greeting. Press 2 for other functions.”	“Record greeting after the beep.” Talk after a long beep. ➧ (9)

- After playback, the voice menu will start again from the beginning.
- If you hear “Memory full” after playback, erase some or all of the messages.

Before Requesting Help

If you experience any problems with the normal use of your apparatus, you should unplug it from the telephone outlet and connect a known working telephone in its place. If the known working telephone still has problems, then please contact the customer service department of your Network provider.
If it operates correctly, then the problem is likely to be a fault in your apparatus.
In this case, contact your supplier for advice. Your Network provider may charge you if they attend a service call that is not due to apparatus supplied by them.

Turn the power OFF then ON (Handset)/Disconnect then connect the AC adaptor (Base unit).

Problem	Possible cause	Solution
NO LCD display in handset.	• Handset not turned on.	• Turn on power (p. 9).
Handset will not turn on.	• Batteries not inserted. • Batteries not charged.	• Insert the 2 rechargeable batteries supplied (p. 4). • Place handset in base and connect AC adaptor to base and AC outlet (full charge period 7 hrs).
Batteries charge icon not counting up.	• Dirty charge contact. • Base not powered up.	• Clean charge/battery contact and retry charge. • Connect AC adaptor to base unit and AC outlet.
Y icon flashes.	• Handset not registered to base. • Handset out of range of base. • No power into base unit.	• Register handset to base. • Move handset closer to base. • Connect AC adaptor to base unit and AC outlet.
Handset busy tone heard when (~) is pressed.	• Handset out of range of base. • Another handset in use.	• Move handset closer to base. • Wait for the other user to complete call.
No dial tone.	• Telephone line not connected.	• Insert telephone cord to network. • Turn power OFF then ON.
Cannot dial out.	• Call BAR set. • Particular dialled number is restricted. • Key lock mode ON.	• Turn feature off. • Remove number from call restricted list. • Turn key lock OFF.

Problem	Possible cause	Solution
Handset will not ring.	• Ringer switched off.	• Set ringer to one of 6 volume levels (see “Handset Settings”).
Last number redial does not work.	• Number exceeded 24 digits.	• Redial manually.
No Caller ID number displayed.	• Service not supplied. • Caller has withheld info.	• Caller ID service must be arranged with Network provider.
icon flashes.	• Battery low.	• Recharge batteries.
icon is disappeared.	• Wrong battery type selected.	• Set the correct battery type.
Cannot register handset to base.	• Max. number of bases already registered to handset. • Max. number of handsets already registered to base unit. • Wrong PIN number entered (Default 0000). • Electrical noise in local area.	• Delete unused base registrations from handset. • Delete unused handset registrations from base. • If PIN number is lost, contact the Panasonic Service Centre. • Move base/handset away from sources of electrical noise (TVs, radios, etc.).
"CLOCK" is flashed.	• A mains power failure. • Answering system is trying to be set without clock/date set.	• Reset the clock/date. • Set the clock/date.

Before Requesting Help

Answering System

Problem	Possible cause	Solution
The answering system is on, but incoming messages are not recorded.	• The recording time is set to “greeting only”. • Memory is full.	• Select “1 minute” or “unlimited” (see “Answering System”). • Erase some or all of the messages.
You cannot operate the answering system from a touch tone phone.	• Incorrect remote code entered. • Tone are too short to activate the unit. • The answering system is off.	• Enter the correct remote code. • Press each button firmly. • Turn on the answering system.
You cannot operate the answering system with the handset.	• Someone is operating the answering system. • You are too far from the base unit.	• Retry when other user has finished operation. • Move closer to the base unit.
While recording a greeting message, the unit starts to ring and stops recording.	• A call is being received.	• To answer the call, press **TALK**. The recording stops halfway. Start from the beginning after hanging up.
During playback, the unit starts to ring and stops playback.	• A call is being received.	• To answer the call, press **TALK**.

Specifications:

Standard:	DECT=(Digital Enhanced Cordless Telecommunications) GAP=(Generic Access Profile)
Number of channels:	120 Duplex Channels
Frequency range:	1.88 GHz to 1.9 GHz
Duplex procedure:	TDMA (Time Division Multiple Access)
Channel spacing:	1728 kHz
Bit rate:	1152 kbit/s
Modulation:	GFSK
RF Transmission Power:	Approx. 250 mW
Voice coding:	ADPCM 32 kbit/s
Power source:	AC Adaptor 220 - 240 V, 50 Hz
Power consumption, base unit:	Standby: Approx. 3.5 W Maximum: Approx. 9.2 W
Operating conditions:	5 - 40 °C, 20 - 80 % relative air humidity (dry)
Dimensions, Base Unit:	About (58 mm x 128 mm x 105 mm) x 170 g
Dimensions, Handset:	About (143 mm x 48 mm x 32 mm) x 120 g

- Specifications are subject to change.
- The illustrations used in this manual may differ slightly from the original device.

Connections:
The unit will not work during a power failure. We recommend you connect a standard telephone on the same line for power protetion.

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For your future reference

Serial No. Date of purchase

(found on the bottom of the unit)

Name and address of dealer

Technical specifications are subject to change.

Sales Department:
Panasonic New Zealand Ltd
350 Te Irirangi Drive
East Tamaki
Private Bag 14911
Panmure
AUCKLAND
NEW ZEALAND

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